Product Range International 2008

Industry
Machines & Tools

+GF+

GEORG FISCHER
PIPING SYSTEMS

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System-Oriented Fusion Jointing Machines

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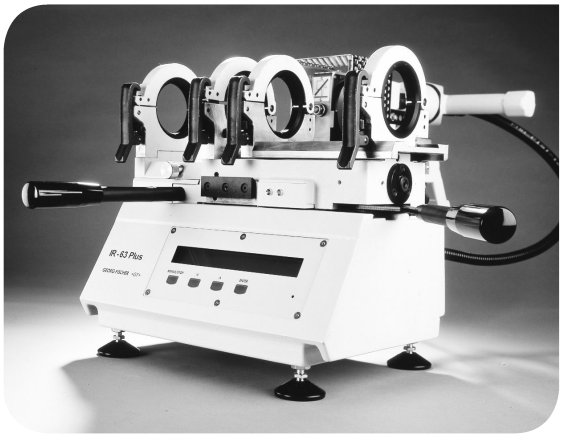
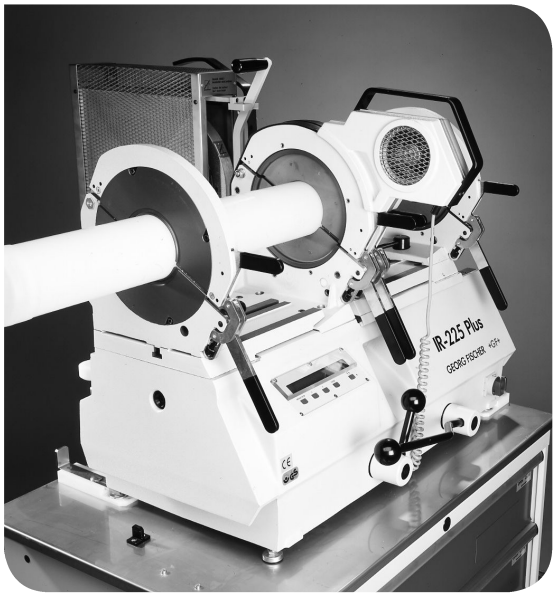
Product Range

IR 63 / 225 / 315





IR-63 Plus® Fusion Jointing Machine and Accessories

IR-63 Plus® Fully-Equipped Machine

Fully-equipped fusion jointing machine for welding SYGEF® Standard, SYGEF® Plus, PROGEF® Standard, PROGEF® Natural, PROGEF® Plus, PE 100 in dimensions d 20-63 mm with integrated remote welding unit, 2 USB interfaces, monochrome display with icons and 12 languages.

Supply:
1-phase AC (50/60 Hz) 230 V L/N/PE

Delivery includes:

- Machine housing complete (1 pcs.)
- Heater assembly (1 pcs.)
- Remote weld device (1 pcs.)
- Facing tool (1 pcs.)
- Transport box (1 pcs.)
- Pipe stop (1 pcs.)
- Clamping inserts d 20-63 mm (8 pcs. per dimension)
- End caps PE d 20-63 mm (4 pcs. per dimension)
- Power supply cable 230 V (1 pcs.)
- Extension cable for remote weld device (1 pcs.)
- Extension cable for heater (1 pcs.)
- Extension cable for facing tool (1 pcs.)
- Cleaning brush No. 8 (1 pcs.)
- Hexagon key 3 mm (1 pcs.)
- Hexagon key 4 mm (1 pcs.)
- Heater protection shield (1 pcs.)
- Clamping unit extension (8 pcs.)
- Socket wrench (facing blades) (1 pcs.)
- Screw driver, Size 0 (1 pcs.)
- HP-Accessory Tray (1 pcs.)
- Manual (1 pcs.)

	d-d [mm]	Code	kg	
PF 2 43 412 001	20 - 63	**790 131 005**	52.000	

Clamping inserts

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [mm]	Code	kg	Pieces
20	**790 131 038**	0.090	1
25	**790 131 039**	0.090	1
32	**790 131 040**	0.083	1
40	**790 131 041**	0.075	1
50	**790 131 042**	0.100	1
63	**790 131 043**	0.040	1

PF 2 43 412 002

Set of facing knives

- A set includes two facing knives. Each facing knife has four blades. The blade may be turned three times before it must be replaced.

d-d [mm]	Code	kg	Pieces
20 - 63	**790 131 045**	0.016	2

PF 2 43 412 002

Set of end caps

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d [mm]	Code	kg	Pieces
20	**790 131 030**	0.010	4
25	**790 131 031**	0.010	4
32	**790 131 032**	0.015	4
40	**790 131 033**	0.025	4
50	**790 131 034**	0.055	4
63	**790 131 035**	0.035	4

PF 2 43 412 002

Pipe stop

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d [mm]	Code	kg	Pieces
20 - 63	**790 131 046**	0.430	1

PF 2 43 412 002

Extension cable for clamping slide

- The extension cable enables the fusion e. g. under the ceiling.

d-d [mm]	Code	kg	Pieces
20 - 63	**790 131 047**	0.800	1

PF 2 43 412 002

Extension cable for facing tool

- The extension cable enables the fusion e. g. under the ceiling.

d-d [mm]	Code	kg	Pieces
20 - 63	**790 131 048**	0.438	1

PF 2 43 412 002

PF 2 43 412 002

Extension cable for heater

- The extension cable enables the fusion e. g. under the ceiling.

d-d [mm]	Code	kg	Pieces	
20 - 63	**790 131 049**	0.785	1	

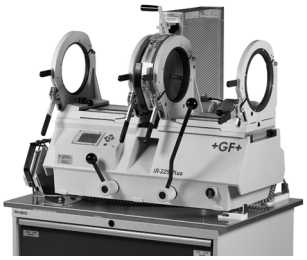
PF 2 43 412 002

Heater protection shield

- Protects the heater from plastic chips during the facing process.

Code	kg	Pieces	
790 131 051	0.205	1	

IR-225 Plus® Fusion Jointing Machine and Accessories



IR-225 Plus® Fully-Equipped Machine with HP Working Table (HP = High Purity)

Fully-equipped fusion jointing machine for welding SYGEF® Standard, SYGEF® Plus, PROGEF® Standard, PROGEF® Natural, PROGEF® Plus, PE 100 in dimensions d 63-225 mm, 2 USB interfaces, monochrome display with icons and 12 languages.

Supply:

1-phase AC (50/60 Hz) 230 V L/N/PE or 3-phase AC (50/60 Hz) 400 V/230 V L1/L2/L3/N/PE

Delivery includes:

- Machine base (1 pcs.)
- Heater assembly (1 pcs.)
- Facing tool (1 pcs.)
- Working table, HP (1 pcs.)
- Movable clamping units (1 pcs.)
- Clamping inserts d 63-225 mm (8 pcs. per dimension)
- End caps PE d 63-225 mm (4 pcs. per dimension)
- Transportation lock (1 pcs.)
- Pipe stop (1 pcs.)
- Hexagon key 5 mm (1 pcs.)
- Hexagon key 6 mm (1 pcs.)
- Combination ring /open-jaw wrench 13 mm (1 pcs.)
- Cleaning brush (1 pcs.)
- Connecting cable 400 V - 230 V (1 pcs.)
- Ball for lever (1 pcs.)
- Manual (1 pcs.)

	d-d [mm]	Code	kg	
PF 2 43 414 001	63 - 225	**790 133 009**	453.000	

Clamping inserts

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [mm]	Code	kg	Pieces
63	**790 133 026**	0.771	1
75	**790 133 027**	0.747	1
90	**790 133 028**	0.716	1
110	**790 133 029**	0.690	1
125	**790 133 030**	0.820	1
140	**790 133 031**	0.827	1
160	**790 133 032**	0.705	1
200	**790 133 033**	0.418	1
225	**790 133 034**	0.282	1

PF 2 43 414 002

Set of end caps *on request

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d [mm]	Code	kg	Pieces
63	**790 131 035**	0.035	4
75	**790 133 036**	0.095	4
90	**790 133 037**	0.110	4
110	**790 133 038**	0.180	4
125	**790 133 039**	0.170	4
140	**790 133 040**	0.185	4
160	**790 133 041**	0.212	4
200	**790 133 042**	0.450	4
225	**790 133 043**	0.365	4

PF 2 43 414 002

HP-Working table including transportation cover

- Multifunction working table for the IR-225 Plus® fusion jointing machine with two integrated drawer. Especially for the use in clean room environment. The working table is made of steel with a stainless steel table.

Code	kg	Pieces
790 133 021	220.000	1

PF 2 43 414 002

Set of facing knives

- A set includes two facing knives. Each facing knife has four blades. The blade may be turned three times before it must be replaced.

d-d [mm]	Code	kg	Pieces
63 - 225	**790 133 046**	0.125	2

PF 2 43 414 002

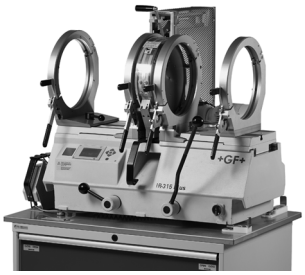
Pipe stop

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d [mm]	Code	kg	Pieces
63 - 225	**790 133 047**	0.150	1

PF 2 43 414 002

IR-315 Plus® Fusion Jointing Machine



IR-315 Plus® Fully-Equipped Machine with HP Working Table (HP = High Purity)

Model:

- Fully-equipped fusion jointing machine for welding SYGEF® Standard, SYGEF® Plus in dimensions d 250-315, 2 USB interfaces, monochrome display with icons and 12 languages.
- **Only a rental pool machine**

d-d [mm]		**Code**	
250 - 315	On request	**-**	

Accessories for the IR-Plus plastic fusion jointing machines

Modification Kit

In order to give our existing IR-Plus customers the full benefit of the advantages we offer a modification kit which enables a reconstruction of all existing IR-Plus machines. The following modifications are included:

- 2 USB interfaces
- Monochrome display with icons
- New navigation panel
- operator guidance in 12 languages

The upgrade of the new IR-Plus components will be executed by Georg Fischer service centres in the USA/Tustin, Singapore and CSO Schaffhausen.

	Type	Code	kg	
PF 2 43 460 902	IR-63 Plus	**790 131 124**	0.500	

Modification Kit

In order to give our existing IR-Plus customers the full benefit of the advantages we offer a modification kit which enables a reconstruction of all existing IR-Plus machines. The following modifications are included:

- 2 USB interfaces
- Monochrome display with icons
- New navigation panel
- operator guidance in 12 languages

The upgrade of the new IR-Plus components will be executed by Georg Fischer service centres in the USA/Tustin, Singapore and CSO Schaffhausen.

	Type	Code	kg	
PF 2 43 460 903	IR-225 Plus	**790 133 124**	0.500	

IR-Plus® Win Weld

- The PC data transfer software makes it possible to manage and evaluate easily the recorded fusion data as required.
- **incl. Recordcard / USB stick**

	Code	kg	Pieces	
WIN 2000/XP	**790 131 471**	0.150	1	
PF 2 43 278 001 WIN 95/98/Me	**790 131 472**	0.220	1	

IR-Plus® Recordcard

- Fusion data from the machine can be stored on an exchangeable protocol card (record card) with a storage capacity of approx. 900 fusion protocols. It allows a paperless documentation.

	Code	kg	Pieces	
PF 2 43 412 002	**790 131 473**	0.031	1	

Product Range

BCF

BCF® Plus Plastic Fusion Jointing Machine

BCF® Plus fully equipped machine d 20 - 63 mm

Fully-equipped machine for bead and crevice free jointing of SYGEF® Standard, SYGEF® Plus, PROGEF® Natural of the dimensions
d 20-63 mm with integrated remote welding unit, 2 USB interfaces, monochrome display with icons and 12 languages.

Supply:
1-phase AC (50/60 Hz) 115 / 230 V L/N/PE

Delivery includes:

- Machine housing (1 pcs.) incl. remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Heating stations d 20-63 mm (6 pcs.)
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools small d 20-63 mm (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.), air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Manual (1 pcs.)

	d-d [mm]	Code	kg	
PF 2 43 654 001	20 - 63	**790 121 002**	153.000	

BCF® Plus fully-equipped machine d 20 -110 mm

Fully-equipped machine for bead and crevice free jointing of SYGEF® Standard, SYGEF® Plus, PROGEF® Natural of the dimensions d 20-110 mm with integrated remote welding unit.

Supply:
1-phase AC (50/60 Hz) 115 / 230 V L/N/PE

Delivery includes:

- Machine housing (1 pcs.) incl. remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Heating stations d 20-110 mm (9 pcs.)
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Clamping units big (2 pcs.) with clamping inserts d 75-110 mm (12 pcs.)
- Adapter for clamping unit d 75-110 mm (2 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Facing tool big (1 pcs.) with facing inserts d 75-110 mm (3 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools small d 20-63 mm (2 pcs.)
- Supporting tools big d 75-110 mm (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.), air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Manual (1 pcs.)

	d-d [mm]	Code	kg	
PF 2 43 654 001	20 - 110	**790 121 001**	188.000	

BCF® Plus basic machine d 20-63 mm

Fully-equipped machine for bead and crevice free jointing of SYGEF® Standard, SYGEF® Plus, PROGEF® Natural of the dimensions d 20-63 mm with integrated remote welding unit

Supply:
1-phase AC (50/60 Hz) 115 / 230 V L/N/PE

Scope of delivery includes:

- Machine housing (1 pcs.) with remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools small (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Inbus T-screwdriver (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.)
- Air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Power supply cable (1 pcs.)
- Manual (1 pcs.)

	d-d [mm]	Code	kg	
PF 2 43 654 001	20 - 63	**790 121 004**	144.000	

BCF® Plus basic machine d 75-110 mm

Fully-equipped machine for bead and crevice free jointing of SYGEF® Standard, SYGEF® Plus, PROGEF® Natural of the dimensions d 75-110 mm with integrated remote welding unit

Supply:
1-phase AC (50/60 Hz) 115 / 230 V L/N/PE

Delivery includes:

- Machine housing (1 pcs.) with remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Clamping units big (2 pcs.) with clamping inserts d 75-110 mm (12 pcs.)
- Adapter for clamping unit d 75-110 mm (2 pcs.)
- Facing tool big (1 pcs.) with facing inserts d 75-110 mm (3 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools big (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Inbus T-screwdriver (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.)
- Air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Power supply cable (1 pcs.)
- Manual (1 pcs.)

	d-d [mm]	Code	kg	
PF 2 43 654 001	75 - 110	**790 121 005**	155.000	

BCF® Plus basic machine d 20 -110 mm

Fully-equipped machine for bead and crevice free jointing of SYGEF® Standard, SYGEF® Plus, PROGEF® Natural of the dimensions d 20-110 mm with integrated remote welding unit

Supply:
1-phase AC (50/60 Hz) 115/ 230 V L/N/PE

Delivery includes:

- Machine housing (1 pcs.) with remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Clamping units big (2 pcs.) with clamping inserts d 75-110 mm (12 pcs.)
- Adapter for clamping unit d 75-110 mm (2 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Facing tool big (1 pcs.) with facing inserts d 75-110 mm (3 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools small d 20-63 mm (2 pcs.)
- Supporting tools big d 75-110 mm (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Inbus T-screwdriver (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.)
- Air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Power supply cable (1 pcs.)
- Manual (1 pcs.)

	d-d [mm]	Code	kg	
PF 2 43 654 001	20 - 110	**790 121 006**	161.000	

BCF® Plus dimension packet d 20-63 mm

- This package is necessary to complete BCF® Plus machines which are only equipped for large dimensions d 75-110 mm.
- **Delivery includes:**
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Supporting tools small (2 pcs.)

	d-d [mm]	Code	kg	
PF 2 43 654 002	20 - 63	**790 121 023**	6.225	

BCF® Plus dimension packet d 75-110 mm

- This package is necessary to complete BCF® Plus machines which are only equipped for small dimensions d 20-63 mm.
- **Delivery includes:**
- Clamping units big (2 pcs.) with clamping inserts d 75-110 mm (12 pcs.)
- Facing tool big (1 pcs.) with facing inserts d 75-110 mm (3 pcs.)
- Supporting tools tall (2 pcs.)
- Adapter for clamping unit d 75-110 mm (2 pcs.)

	d-d [mm]	Code	kg	
PF 2 43 654 002	75 - 110	**790 121 022**	8.107	

PF 2 43 654 002

BCF® Plus Heating stations

d [mm]	Code	kg	Pieces
20	**790 121 111**	1.800	1
25	**790 121 112**	1.820	1
32	**790 121 113**	1.890	1
40	**790 121 114**	2.400	1
50	**790 121 115**	2.400	1
63	**790 121 116**	2.150	1
75	**790 121 117**	3.600	1
90	**790 121 118**	3.600	1
110	**790 121 119**	3.520	1

PF 2 43 410 002

BCF® Bladder for SYGEF® PVDF

- Only suitable for welding SYGEF® PVDF and not for PROGEF® Natural. **Silver bladder head!**

d [mm]	Code	kg	Pieces
20	**790 122 041**	0.014	1
25	**790 122 042**	0.029	1
32	**790 122 043**	0.037	1
40	**790 122 044**	0.055	1
50	**790 122 045**	0.131	1
63	**790 122 046**	0.152	1
75	**790 121 047**	0.152	1
90	**790 121 048**	0.204	1
110	**790 121 049**	0.428	1

PF 2 43 410 002

BCF® Plus Bladder

- Only suitable for welding PROGEF® Natural). **Blue bladder head** (except d 75 -110mm)!

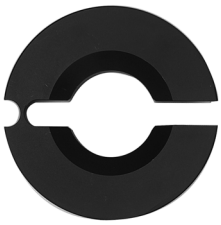
d [mm]	Code	kg	Pieces
20	**790 122 091**	0.038	1
25	**790 122 092**	0.044	1
32	**790 122 093**	0.062	1
40	**790 122 094**	0.082	1
50	**790 122 095**	0.131	1
63	**790 122 096**	0.168	1

PF 2 43 654 002

BCF® Plus facing tool

- Inclusive crank handle, mounting material and clamping inserts. Suitable for SYGEF® PVDF as well as PROGEF® Natural.

d-d [mm]	Code	kg	Pieces
20 - 63	**790 121 052**	1.400	1
75 - 110	**790 121 053**	3.000	1



BCF® Plus clamping inserts for the facing tool

- These dimension-specific parts are inserted into the facing tool, in order to be able to face the end of the pipes smoothly and parallel.

d [mm]	Code	kg	Pieces
20	**790 121 061**	0.160	1
25	**790 121 062**	0.150	1
32	**790 121 063**	0.132	1
40	**790 121 064**	0.125	1
50	**790 121 065**	0.100	1
63	**790 121 066**	0.050	1
75	**790 121 067**	0.300	1
90	**790 121 068**	0.200	1
110	**790 121 069**	0.090	1

PF 2 43 654 002

BCF® Plus facing tool mounting plate

- To fix the facing tool on the workbench.

d-d [mm]	Code	kg	Pieces
20 - 110	**790 121 055**	1.200	1

PF 2 43 654 002

BCF® Plus clamping units

- The clamping units are adjustable, so that all types of pipes and fittings can be clamped.

d-d [mm]	Code	kg	Pieces
20 - 63	**790 121 034**	0.001	1
75 - 110	**790 121 035**	0.900	1

PF 2 43 654 002

BCF® Plus adapter for clamping unit d 75-110 mm

- The adapter makes it possible, to insert clamping inserts with d 20-63 mm in clamping units with d 75-110 mm to be able to clamp pipes and fittings with d 20-63 mm with these clamping units.

d-d [mm]	Code	kg	Pieces
75 - 110	**790 121 038**	0.250	1

PF 2 43 654 002

BCF® Plus clamping inserts

- The clamping inserts are suitable for the clamping units of the BCF®Plus machine. They are used to clamp the piping components.
- **No** clamping inserts are needed for **d 110 mm**!

d [mm]	Code	kg	Pieces
20	**790 131 038**	0.090	1
25	**790 131 039**	0.090	1
32	**790 131 040**	0.083	1
40	**790 131 041**	0.075	1
50	**790 131 042**	0.100	1
63	**790 131 043**	0.040	1
75	**790 121 036**	0.113	1
90	**790 121 037**	0.095	1

PF 2 43 654 002

PF 2 43 460 901

BCF® Plus hose box

- For the clean and professional storage of the air hose.

Code	kg	Pieces	
790 121 151	1.114	1	

PF 2 43 410 002

BCF® Plus hose

- Connection hose for the BCF®Plus bladder.

Code	kg	Length [mm]	
790 122 087	0.131	11	

PF 2 43 654 002

BCF® Plus supporting tool

- Helpful to fix 45°- angle components.

d-d [mm]	Code	kg	Pieces	
20 - 63	**790 121 072**	0.542	1	
75 - 110	**790 121 073**	0.942	1	

PF 2 43 654 002

BCF® Plus bladder/ hose remove tool (BReT)

- Helpful to remove bladders easily.

Code	kg	Pieces	
790 121 075	0.079	1	

PF 2 43 654 002

BCF® Plus extension cable

- The extension cable enable the fusion e. g. under the ceiling.

Code	kg	Length [mm]	
790 121 010	2.000	8	

Accessories for the BCF®Plus plastic fusion jointing machine

Modification Kit

In order to give our existing BCF Plus customers the full benefit of the advantages we offer a modification kit which enables a reconstruction of all existing BCF Plus machines. The following modifications are included:

- 2 USB interfaces
- Monochrome display with icons
- New navigation panel
- operator guidance in 12 languages

The upgrade of the new BCF Plus components will be executed by Georg Fischer service centres in the USA/Tustin, Singapore and CSO Schaffhausen.

	Type	Code	kg	
PF 2 43 460 901	BCF Plus	**790 121 124**	0.500	

PF 2 43 410 002

Hose cutter

d-d [mm]	Code	kg	Pieces	
4 - 6	**790 122 106**	0.030	1	

PF 2 43 460 901

Reducer for compressed air hose

d-d [mm]	Code	kg	Pieces	
6 - 4	**790 122 978**	0.002	1	

PF 2 43 410 002

Socket for compressed air hose

Code	kg	Pieces	
790 122 104	0.002	1	

PF 2 43 278 001

BCF® Plus Win Weld

- The PC data transfer software makes it possible to manage and evaluate easily the recorded fusion data as required.
- **incl. Recordcard / USB stick**

	Code	kg	Pieces	
WIN 2000/XP	**790 121 471**	0.080	1	
WIN 95/98/Me/NT	**790 121 472**	0.220	1	

PF 2 43 412 002

BCF® Plus Recordcard

- Fusion data from the BCF® Plus- machine can be stored on an exchangeable protocol card (record card) with a storage capacity of approx. 900 fusion protocols. It allows a paperless documentation.

Code	kg	
790 121 473	0.031	

Accessories for the IR Plus® and BFC® Plus fusion machines

USB memory stick

Code	kg	Description	
799 350 622	0.300	Memory stick (for software or languages updates)	

PF 2 51 306 005

USB cable

- PC and printer transmission cable to transfer fusion data directly to PC or to printer

Code	kg	Description	
799 350 619	0.300	USB cable (type A/B) for printer and PC connection	

PF 2 51 306 005

Label Printer TLP-2844

- The thermotransfer printer TLP-2844 from Eltron International is, as a result of its compactness and ergonomic design, ideal for use on job sites. Supply includes a thermal printer ribbon, thermal transfer labels and a serial as well as a parallel interfa
- **Remarks:** We suggest, regarding service and warranty matters, to purchase directly from the local Eltron Representative. George Fischer can provide a list of world-wide addresses of the Eltron representatives on request.

Code	kg	Pieces	
790 131 027	3.100	1	

PF 2 43 412 002

Thermal Printer Ribbon for TLP-2742 / TLP-2844

- The thermal transfer ribbon is specially suited for printing polyester labels.

Code	kg	Pieces	
790 131 029	0.120	1	

PF 2 43 412 002

Thermal Transfer Labels

- The labels are made of white polyester. The printing, as well as the labels themselves, are resistant against:
- UV resistant
- Temperatures up to 140 °C (284 °F)
- Up to 95% humidity
- Cleaning agents (Isopropylalcohol etc.)
- Two identical labels are printed for each weld. Each roll contains 2500 labels.
- Label size: 38 x 19 mm
- Specification information available on request from George Fischer.

Code	kg	Pieces	
790 131 028	0.420	1	

PF 2 43 412 002

Power supply lead

Performance	Code	kg	Pieces	
230V	**790 122 246**	0.307	1	
115V	**790 122 248**	0.188	1	

PF 2 43 410 002

PF 2 28 473 002

KS Tangit Cleaner

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.

Code	kg	
799 298 023	0.890	

Cleaning tissue KO-TON-R

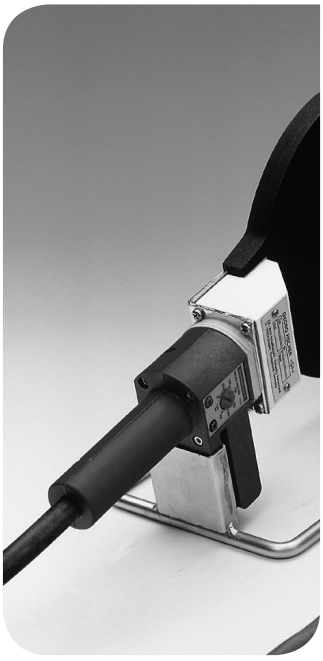
- This cleaning tissue is suitable for the cleaning of the welding zone of piping components, because it is lint free and clean room checked.

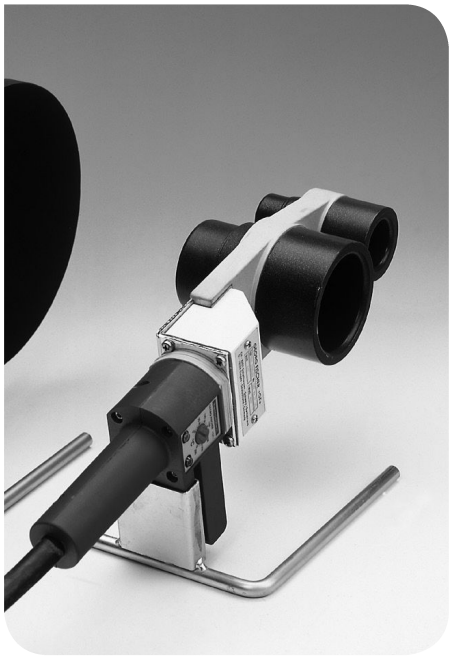
[1]) Minimum order quantity 50 pieces

Code	kg	
790 122 085	0.004	

Product Range

Hand tools





Manual fusion tools

SSE Butt fusion tool

- All devices are equiped with on/off switch, mains control and control lamp for heating intervals
- Choice of electronic or thermostatic temperature control
- Heating element diameter 120 mm, 200 mm and 300 mm
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- T = thermostatic temperature control
- E = electronic temperature control

d [mm]	Type	Performance	Code	kg	
110	SSE 120	115 V/400 W T	**790 105 136**	2.300	
110	SSE 120	115 V/400 W E	**790 105 141**	2.400	
180	SSE 200	230 V/800 W T	**790 105 052**	3.000	
180	SSE 200	230 V/800 W E	**790 105 059**	3.000	
180	SSE 200	115 V/800 W T	**790 105 137**	3.000	
180	SSE 200	115 V/800 W E	**790 105 142**	3.000	
280	SSE 300	230 V/1500 W T	**790 105 053**	5.540	
280	SSE 300	230 V/1500 W E	**790 105 060**	5.640	
280	SSE 300	115 V/1500 W T	**790 105 138**	5.540	
280	SSE 300	115 V/1500 W E	**790 105 143**	5.640	

PF 3 25 117 315

SSE 200 -Set- Butt fusion tool

- All devices are equiped with on/off switch, mains control and control lamp for heating intervals
- Choice of electronic or thermostatic temperature control
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- Available as a complete set in a practical metal case
- Heating element-diameter 200 mm
- Table clamp
- T = thermostatic temperature control
- E = electronic temperature control

d [mm]	Performance	Code	kg	
180	230 V/800 W T	**790 105 054**	7.815	
180	230 V/800 W E	**790 105 061**	8.800	
180	115 V/800 W T	**790 105 139**	7.400	
180	115 V/800 W E	**790 105 144**	7.400	

PF 3 25 122 500

SSE 300 -Set- Butt fusion tool

- All devices are equiped with on/off switch, mains control and control lamp for heating intervals
- Choice of electronic or thermostatic temperature control
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- Available as a complete set in a practical metal case
- Heating element-diameter 300 mm
- Table clamp
- T = thermostatic temperature control
- E = electronic temperature control

d [mm]	Performance	Code	kg	
280	230 V/1500 W T	**790 105 055**	11.725	
280	230 V/1500 W E	**790 105 062**	11.000	
280	115 V/1500 W T	**790 105 140**	11.000	
280	115 V/1500 W E	**790 105 145**	11.000	

PF 3 25 122 500

MSE 63/MSE 110 Socket fusion tools

- For fusion jointing of PP, PE and PVDF pipes and fittings
- Size range d 16-110 mm
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- T = thermostatic temperature control
- E = electronic temperature control

d-d [mm]	Type	Performance	Code	kg	
16 - 63	MSE 63	230 V/800 W T	**790 105 081**	1.760	
16 - 63	MSE 63	230 V/800 W E	**790 105 082**	2.000	
16 - 63	MSE 63	115 V/800 W T	**790 105 096**	2.075	
16 - 63	MSE 63	115 V/800 W E	**790 105 097**	2.145	
16 - 110	MSE 110	230 V/1500 W T	**790 105 083**	3.550	
16 - 110	MSE 110	230 V/1500 W E	**790 105 084**	3.200	
16 - 110	MSE 110	115 V/1500 W T	**790 105 126**	3.200	
16 - 110	MSE 110	115 V/1500 W E	**790 105 127**	3.200	

PF 3 25 117 314

Tool set for MSE 63/110

- Including alen screws and key

Code	kg	
790 105 065	0.265	

PF 3 25 117 314

MSE 63/MSE 110 - Set - Socket fusion tools

- For fusion jointing of PP, PE and PVDF pipes and fittings
- Size range d 16-110 mm
- All devices are equiped with on/off switch, mains control and control lamp for heating intervals
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- Heating bushes and spigots
- Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- Alen screws and key
- T = thermostatic temperature control
- E = electronic temperature control

d-d [mm]	Type	Performance	Code	kg	
16 - 63	MSE 63	230 V/800 T	**790 105 085**	8.600	
16 - 63	MSE 63	230 V/800 E	**790 105 086**	10.180	
16 - 63	MSE 63	115 V/800 T	**790 105 098**	8.600	
16 - 63	MSE 63	115 V/800 E	**790 105 099**	8.600	
16 - 110	MSE 110	230 V/1500 T	**790 105 087**	17.700	
16 - 110	MSE 110	230 V/1500 E	**790 105 088**	17.680	
16 - 110	MSE 110	115 V/1500 T	**790 105 128**	14.880	
16 - 110	MSE 110	115 V/1500 E	**790 105 129**	15.600	

PF 3 25 122 400

Accessories/Wearing parts for manual fusion tools

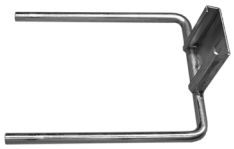
Metal case

PF 3 25 117 315

- For butt and socket fusion hand tools

Article	Code	kg
SSE 200	**790 105 056**	3.900
SSE 300	**790 105 057**	4.700
MSE 63	**790 105 089**	4.000
MSE 110	**790 105 090**	7.000

Floor stand for manual fusion tools SSE/MSE



PF 3 25 117 315

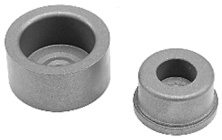
Code	kg
790 105 063	0.300

Table clamp for SSE/MSE

PF 3 25 117 327

Code	kg
790 109 315	0.700

Heating spigots and bushes



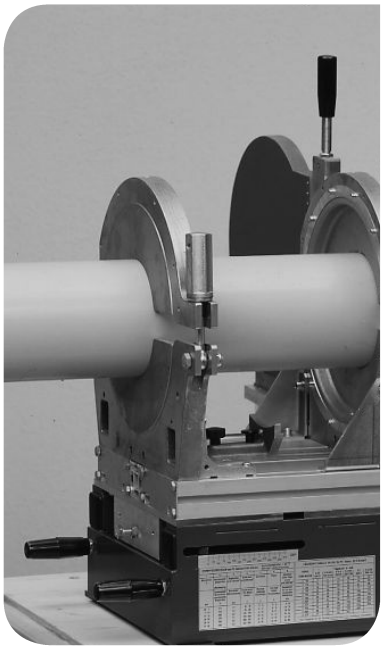
PF 3 25 117 302

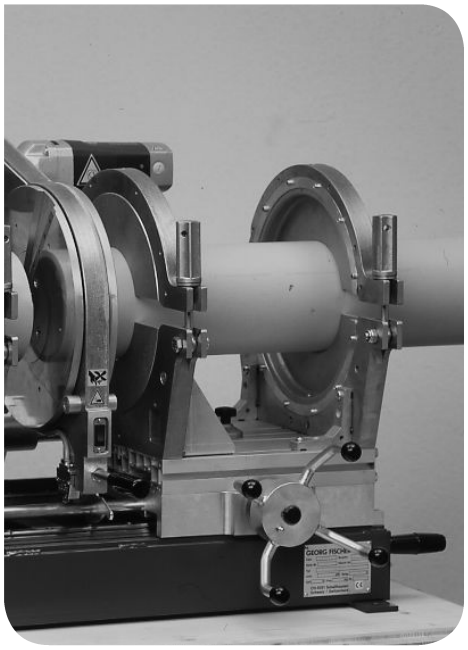
- Aluminium, PTFE coated
- Type B
- Always delivered in pairs (also usable for SG 110, not for SG 160)

d [mm]	Code	kg
16	**799 300 155**	0.070
25	**799 300 157**	0.110
32	**799 300 158**	0.140
40	**799 300 159**	0.230
50	**799 300 160**	0.335
63	**799 300 161**	0.565
75	**799 300 162**	0.965
90	**799 300 163**	1.440
110	**799 300 164**	2.210

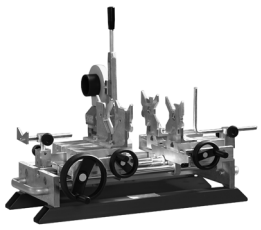
Product Range

Standard Fusion Machines





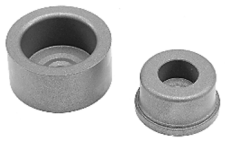
SG 110 Socket fusion machine



For fusion jointing of PP, PE, PB and PVDF pipes and fittings

- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- Dimension d 20 - 110 mm
- **Base machine**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- **Heater**
- With electronic temeperature control
- High temperature accuracy over the entire heating surface
- **Additional standard equipment on the basic model**
- Universal, left and right prismatic clamping devices, complete, for clamping pipe and fittings. Additional set of prismatic clamping devices for outer clamping of pipes available as an option.
- Depth stop
- V-shaped pipe support d 20 - 110 mm
- Back stop
- Machine specific tool set
- Timer to clock fusion times

	d-d [mm]	Performance	Code	kg	
	20 - 110	230 V/1200 W	**790 310 001**	65.000	
PF 3 25 134 100	20 - 110	115 V/1200 W	**790 310 003**	64.000	



Heating spigots and bushes

- For socket fusion systems in PP, PE and PVDF
- Always delivered in pairs (also usable for SG 110, not for SG 160)
- Type B

	d [mm]	Code	kg	
	25	**799 300 157**	0.110	
	32	**799 300 158**	0.140	
	40	**799 300 159**	0.230	
	50	**799 300 160**	0.335	
	63	**799 300 161**	0.565	
	75	**799 300 162**	0.965	
	90	**799 300 163**	1.440	
PF 3 25 117 302	110	**799 300 164**	2.210	

Manual pipe peeling tool

- For socket fusion systems in PP, PE and PVDF

d [mm]	Code	kg	
20	**799 300 260**	0.067	
25	**799 300 270**	0.081	
32	**799 300 280**	0.102	
40	**799 300 290**	0.244	
50	**799 300 300**	0.294	
63	**799 300 310**	0.505	
75	**799 300 320**	0.780	
90	**799 300 330**	0.987	
110	**799 300 340**	1.360	

Chamfering tool

PF 3 10 590 100

d-d [mm]	Code	kg	
40 - 200	**790 309 001**	1.600	
50 - 315	**790 309 002**	3.170	

Universal prismatic clamping device, complete

- For correct clamping of long pipes, fittings
- 1 set = 2 pieces (1 back and 1 front prismatic clamping device) for mounting on left or right side, as well as for inner and outer mounting

PF 3 25 134 100

d-d [mm]	Code	kg	
20 - 110	**790 310 011**	3.300	

Backstop, complete

- Prevents the components from slipping out of the clamping device during fusion.

PF 3 25 117 317

d-d [mm]	Code	kg	
20 - 110	**790 310 012**	0.600	

V-shaped pipe support, complete

PF 3 25 117 317

d-d [mm]	Code	kg	
20 - 110	**790 310 013**	0.700	

Heating element

PF 3 25 117 317

d-d [mm]	Performance	description	Code	kg	
20 - 110	230 V/1200 W	electronic	**790 310 014**	2.400	
20 - 110	230 V/1200 W	thermostatic	**790 310 015**	2.400	
20 - 110	115 V/1200 W	electronic	**790 310 016**	2.400	
20 - 110	115 V/1200 W	thermostatic	**790 310 017**	2.400	

Special transport crate

PF 3 25 117 317

Code	kg	
790 310 099	45.000	

1 set face chucks

- For back and front prismatic clamping device (set of 2 pieces)

PF 3 25 117 317

d-d [mm]	Code	kg	
20 - 110	**790 310 018**	1.100	

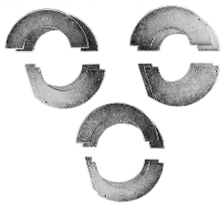
PSO 701 Butt fusion machine

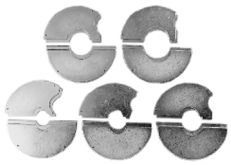
PF 3 10 585 100

For fusion jointing of PP and PE pipes and fittings, size range d 40 - 160mm

- Professional butt fusion machine capable to weld pipes d 160mm up to PN10. The wooden box is usable as working bench as well as for transportation.
- Pressure adjustment via direct load transfer (max. force 100kp)
- Planer and heating element could be swivelled in and out
- High performance heating element thermostatic controlled (PTFE coated)
- The heating element can be used as manual fusion tool
- **V-shaped pipe support** d 40 - 140 mm
- **Reduction clamping inserts** d 40 - 140 mm
- **Base clamping plates** right and left, d 160 mm
- Machine specific tool set

d-d [mm]	Performance	Code	kg	
40 - 160	230 V/800 W	**790 301 000**	90.000	

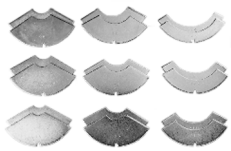




PF 3 25 117 311

Reduction clamping inserts

- 1 Code Nr. includes 4 half-shells



PF 3 25 117 311

Inserts for pipe support

- 1 Code Nr. Includes 2 supports

d [mm]	Code	kg	

1 Set planer blades

- (1 set = 2 blades)

Code	kg	
790 113 056	0.080	

SG 160 Combined butt and socket fusion machine

for fusion jointing PP, PE and PVDF pipes and fittings size range for butt fusion d 32 - 160

Mobile, very compact and universal plastic fusion machine for use in the workshop and on job sites.
Butt fusion d 32 - 160 mm, all pressure ratings up to PE/PP SDR 11; PVDF SDR 21.
Socket fusion d 16 - 110 mm

Basic machine

- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- All clamping possibilities for base clamping plates, pipe supports, back stop and prismatic clamping devices.

Planer

- planing device made of light cast aluminium
- optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends 620 W
- integrated pick up for easy mounting of calibration tools for machining of pipe ends in socket fusion

Heater

- high-performance and precision heater with electronic temperature control 1500 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE fabric (Teflon)

Additional standard equipment on the basic model

- V-shaped pipe supports d 16 - 160 mm for fittings
- timer to clock fusion times
- tool set specified to machine

	d-d [mm]	Performance	Code	kg	
	16 - 160	230 V	**790 103 031**	44.900	
PF 3 25 123 300	16 - 160	115 V	**790 103 033**	45.000	

SG 160 Special accessories for butt and socket fusion

Special transport crate

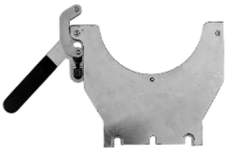
PF 3 25 117 303

- Compact and sturdy for proper transportation and safe storage
- Multifunctional, can be used as a workbench for ergonomic working position
- Two integrated drawers to store all accessories
- Dimensions 1 m height x 1,2 m length x 0.8 m width

Code	kg	
790 103 099	108.000	

SG 160 Accessories for butt fusion

Base clamping plates



- In order to improve the quality of the fusion joint, and for reliable clamping of long pipes, we recommend using the maximum number of clamping devices.
- For welding of long pipes we recommend to use the outer left and outer right base clamping plates as well.
- L = left
- R = right

d [mm]	Type	Code	kg
160	L	**790 103 010**	2.503
160	R	**790 103 011**	2.510

PF 3 25 117 303

Inserts, left/right

- For base clamping plate
- Left or right

d [mm]	Code	kg
32	**790 103 019**	0.315
40	**790 103 020**	0.310
50	**790 103 021**	0.302
63	**790 103 022**	0.277
75	**790 103 023**	0.250
90	**790 103 024**	0.224
110	**790 103 025**	0.178
125	**790 103 026**	0.132
140	**790 103 027**	0.079

PF 3 25 117 303

Clamping bracket, left

- For base clamping plate
- L = left
- R = right

* Threaded clamping bracket, for mounting inserts d 32 - 140 mm. An additional insert must be used instead of clamping brackets d 32 - 140 mm, i.e. twice the number of inserts listed must be ordered.

d [mm]	Type	Code	kg
32	L	**790 103 039**	0.530
40	L	**790 103 040**	0.530
50	L	**790 103 041**	0.530
63	L	**790 103 042**	0.530
75	L	**790 103 043**	0.530
90	L	**790 103 044**	0.580
110	L	**790 103 045**	0.580
125	L	**790 103 046**	0.606
140	L	**790 103 047**	0.650
*160	L	**790 103 048**	0.669
32	R	**790 103 059**	0.530
40	R	**790 103 060**	0.530
50	R	**790 103 061**	0.530
63	R	**790 103 062**	0.530
75	R	**790 103 063**	0.530
90	R	**790 103 064**	0.580
110	R	**790 103 065**	0.590
125	R	**790 103 066**	0.605
140	R	**790 103 067**	0.530
*160	R	**790 103 068**	0.650

PF 3 25 117 303

SG 160 Accessories for socket fusion

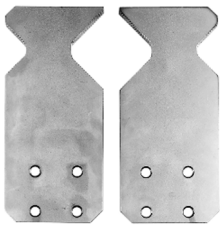
Prismatic clamping device

- Prismatic clamping device for pick up of clamping jaws for exact alignment of fusion components
- L = left
- R = right

*Horizontal adjustable

Type	Code	kg	
L	**790 103 080**	6.112	
*R	**790 103 081**	6.118	

PF 3 25 117 303

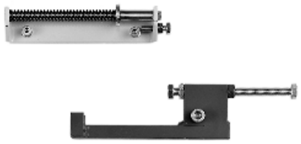


Clamping jaws

- For prismatic base units, left/right
- Each code number defines 1 piece prismatic clamping device. For socket fusion 4 pieces are needed.

**	Code	kg	
16-32 / 90-110	**790 103 085**	0.310	
30-50 / 50-90	**790 103 086**	0.330	

PF 3 25 117 303

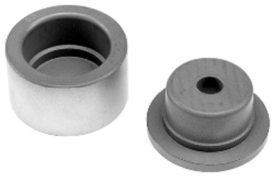


Depth stop, complete

- Warrants the correct insertion depth of the pipe in the fittings socket
- Built-in spring for easier removal of fusion components from the heater. Damage to the plastified fusion surfaces is prevented.

Code	kg	
790 103 090	0.610	

PF 3 25 117 303



Heating spigots and bushes

- Aluminium, PTFE coated
- 1 pair is always delivered

d [mm]	Code	kg	
16	**790 101 086**	0.310	
20	**790 101 087**	0.315	
25	**790 101 088**	0.313	
32	**790 101 089**	0.316	
40	**790 101 090**	0.329	
50	**790 101 091**	0.475	
63	**790 101 092**	0.858	
75	**790 101 093**	1.157	
90	**790 101 094**	1.697	
110	**790 101 095**	2.090	

PF 3 25 117 304

Stiffener plate

- For heating bush d 110 mm
- Warrants consistent heat transfer from heater plate to heating bush 110 mm
- Is recommended for socket fusion in the dimension 110 mm

d [mm]	Code	kg	
110	**790 101 098**	0.264	

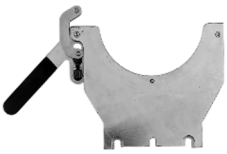
PF 3 25 117 304

PF 3 25 117 303

Calibration tool

- For mechanical, standardised calibration of pipe ends in PE, PP and PVDF (to be used with planer)
- easy and time-saving removal of oxide film
- Consistent peeling quality over the entire pipe circumference

d [mm]	Code	kg
20	**790 103 160**	0.950
25	**790 103 161**	0.950
32	**790 103 162**	0.950
40	**790 103 163**	0.930
50	**790 103 164**	0.950
63	**790 103 165**	1.000
75	**790 103 166**	1.150
90	**790 103 167**	1.250
110	**790 103 168**	1.344



PF 3 25 117 303

Base clamping plates

- In order to improve the quality of the fusion joint, and for reliable clamping of long pipes, we recommend using the maximum number of clamping devices.
- For welding of long pipes we recommend to use the outer left and outer right base clamping plates as well.
- L = left
- R = right

d [mm]	Type	Code	kg
160	L	**790 103 010**	2.503
160	R	**790 103 011**	2.510

PF 3 25 117 303

Inserts, left/right

- For base clamping plate
- Left or right

d [mm]	Code	kg
32	**790 103 019**	0.315
40	**790 103 020**	0.310
50	**790 103 021**	0.302
63	**790 103 022**	0.277
75	**790 103 023**	0.250
90	**790 103 024**	0.224
110	**790 103 025**	0.178

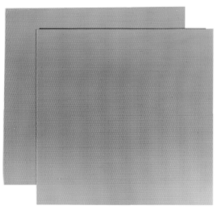
PF 3 25 117 304

Back stop

- Prevents the components from slipping out of the clamping device during fusion.

d-d [mm]	Code	kg
20 - 250	**790 101 045**	1.394

SG 160 Wearing parts

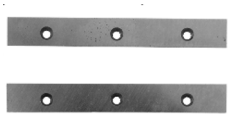


PF 3 25 117 303

SG 160 1 Set PTFE fabric sheets

- (set of 2 pieces)
- High-quality, easy to replace, non-stick PTFE fabric (Teflon) for the heater

d [mm]	Code	kg	
160	**790 103 306**	-	



PF 3 25 117 303

SG 160 1 Set planer blades

- (1 set = 2 blades)

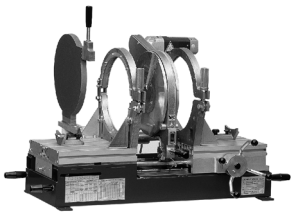
Code	kg	
790 103 548	0.026	

PF 3 25 117 316

Timer with 2 stop times

Code	kg	
790 114 028	0.100	

SG 315 Butt fusion machine



for butt fusion jointing of PP, PE and PVDF pipes and fittings

The industrial butt fusion machine for pressure piping systems. Extremely sturdy design use in the workshop and on job sites.
Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11;
PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Basic machine

- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- optional outer, horizontally removeable clamping devices available

Planer

- optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

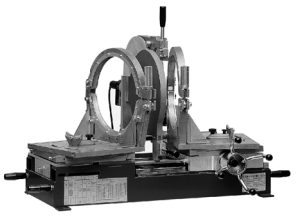
- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- tool set specified to machine

	d-d [mm]	Performance	Code	kg	
	90 - 315	230 V	**790 130 001**	128.000	
PF 3 25 124 400	90 - 315	115 V	**790 130 002**	128.000	

SG 315-S Butt fusion machine



for butt fusion jointing of PP, PE and PVDF pipes and fiitings

The industrial butt fusion machine for pressure piping systems.
The S-version (S = segment) additionally allows prefabrication of segments.
Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11;
PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Basic machine

- integrated swivel tables for equalization of wall offset transverse to axial direction, for segment fusion up to 30°
- optional outer, horizontally removeable clamping devices available
- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine

Planer

- optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

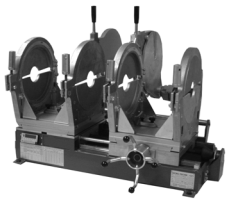
- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- tool set specified to machine

	d-d [mm]	Performance	Code	kg	
	90 - 315	230 V	**790 130 003**	150.000	
PF 3 25 124 400	90 - 315	115 V	**790 130 004**	143.000	

SG 315-D Butt fusion machine



for butt fusion jointing of PP, PE and PVDF pipes and fittings

The industrial butt fusion machine for pressure piping systems. Extremely sturdy design use in the workshop and on job sites.
Equipped with a load cell and a digital display of the fusion force.
Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11;
PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Basic machine

- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- digital display
- optional outer, horizontally removeable clamping devices available

Planer

- optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

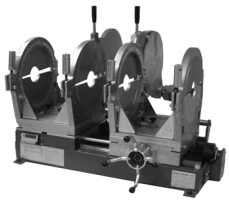
- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- tool set specified to machine

	d-d [mm]	Performance	Code	kg	
	90 - 315	230 V	**790 130 031**	150.000	
PF 3 25 124 400	90 - 315	115 V	**790 130 032**	128.000	

SG 315-SD Butt fusion machine



for butt fusion jointing of PP, PE and PVDF pipes and fittings

The industrial butt fusion machine for pressure piping systems.
The S-version (S = segment) additionally allows prefabrication of segments.
Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11;
PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Basic machine

- integrated swivel tables for equalization of wall offset transverse to axial direction, for segment fusion up to 30°
- optional outer, horizontally removeable clamping devices available
- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- load cell
- digital display

Planer

- optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- tool set specified to machine

	d-d [mm]	Performance	Code	kg	
	90 - 315	230 V	**790 130 033**	143.000	
PF 3 25 124 400	90 - 315	115 V	**790 130 034**	145.000	

SG 315 / SG 315 - S Accessories

Outer base clamping plates

PF 3 25 117 326

- In order to improve the quality of the fusion joint, and for reliable clamping of long pipes, we recommend using the outer base clamping plates.
- L = left
- R = right

d [mm]	Type	Code	kg
315	L	**790 130 011**	6.203
315	R	**790 130 012**	6.191

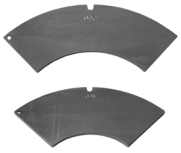
Reduction clamping inserts, narrow

PF 3 25 117 307

- d 90 - 280 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg
90	**790 112 098**	0.995
110	**790 112 099**	1.285
125	**790 112 100**	1.245
140	**790 112 101**	1.205
160	**790 112 102**	1.135
180	**790 112 103**	1.010
200	**790 112 104**	0.950
225	**790 112 105**	0.865
250	**790 112 106**	0.770
280	**790 112 107**	0.560

Set of pipe supports



PF 3 25 117 318

d-d [mm]	Code	kg
90 - 280	**790 118 025**	6.700

Special transport crate

PF 3 25 117 326

- Compact and sturdy for proper transportation and safe storage
- Multifunctional, can be used as a workbench for ergonomic working position
- Two integrated drawers to store all accessories
- Dimensions 1 m height x 1.2 m length x 0.8 m width

Code	kg
790 130 026	143.000

Back stop

PF 3 25 117 326

- Prevents the components from slipping out of the clamping device during fusion.

Code	kg
790 130 013	2.750

SG 315 Accessories

1set planer blades

- (1 set = 2 blades)

	Code	kg	
PF 3 25 117 326	**790 130 023**	0.043	

MC 110 Butt fusion machine

Machine MC 110, complete with electric planer

- Portable butt fusion machine for use in the workshop and on job sites. For fusion jointing of PP and PE pipes and fittings as well as prefabrication of segments in the size range d 20 - 110 mm and up to PN 10.
- Machine MC 110 complete includes: machine mounting, basic machine, 2 base clamping plates (wide), base clamping plate (left narrow), planer, heater thermostatic controlled, table clamp and transport crate.
- Including transport packaging, without accessories

	d-d [mm]	Performance	Code	kg
PF 3 25 368 100	20 - 110	230 V/ 800 W	**790 109 303**	31.000
	20 - 110	115 V/ 800 W	**790 109 321**	31.000

MC 110 complete with manual planer

- Portable butt fusion machine for use in the workshop and on job sites. For fusion jointing of PP and PE pipes and fittings as well as prefabrication of segments in the size range d 20 - 110 mm and up to PN 10.
- Machine MC 110 complete includes: machine mounting, basic machine, 2 base clamping plates (wide), base clamping plate (left narrow), planer, heater thermostatic controlled, table clamp and transport crate.
- Including transport packaging, without accessories

	d-d [mm]	Performance	Code	kg
PF 3 25 368 100	20 - 110	230 V/800W	**790 109 301**	31.000
	20 - 110	115 V/800W	**790 109 320**	31.000

Machine mounting

- For mounting the basic machine and fastening the complete MC 110 on the workbench

	Code	kg
PF 3 25 117 700	**790 109 306**	-

Basic machine

- With spring resistance for pressure build-up and tool set

	d-d [mm]	Code	kg
PF 3 25 117 700	25 - 110	**790 109 307**	-

Base clamping plate, wide

- 110 mm for pipe/pipe joints
- For mounting the wide reduction clamping inserts
- Freely adjustable (max. 15°)

	d [mm]	Code	kg
PF 3 25 117 327	110	**790 109 308**	1.200

Base clamping plate, left narrow

- 110 mm for fitting/pipe joints
- For mounting the narrow reduction clamping inserts
- Freely adjustable (max. 15°)

d [mm]	Code	kg	
110	**790 109 309**	1.000	

PF 3 25 117 327

Planer, electrically operated

- Centre of planing radial adjustable.

d-d [mm]	Performance	Code	kg	
25 - 110	230V/560W	**790 109 312**	4.900	
25 - 110	115V/560W	**790 109 324**	4.900	

PF 3 25 117 327

Planer, manually operated

- With ratchet mechanism
- Stops on guide shaft can be locked
- Cutting blades sharpended on both sides

d-d [mm]	Code	kg	
25 - 110	**790 109 311**	2.300	

PF 3 25 117 327

Heater

- Thermostatic temperature control, variable setting
- With machine mounting
- Control light for mains voltage and heating intervals
- PTFE- coating

d-d [mm]	Performance	Code	kg	
25 - 110	230V/800W	**790 109 313**	2.600	
25 - 110	115V/800W	**790 109 322**	2.600	

PF 3 25 117 327

Table clamp

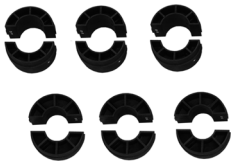
- For correct placement of heater

Code	kg	
790 109 315	0.700	

Transport crate

Code	kg	
790 109 317	13.000	

PF 3 25 117 327

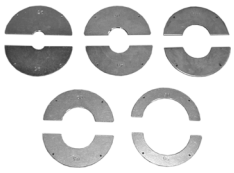


PF 3 25 117 327

Reduction clamping inserts, wide

- 20 - 90 mm
- Each code number defines 1 half shell. Per wide base clamping plate 2 reduction half -shells are needed.

d [mm]	Code	kg
20	**790 109 326**	0.150
25	**790 109 327**	0.150
32	**790 109 328**	0.150
40	**790 109 329**	0.145
50	**790 109 330**	0.129
56	**790 109 342**	0.150
63	**790 109 331**	0.125
75	**790 109 332**	0.113
90	**790 109 333**	0.105



PF 3 25 117 327

Reduction clamping inserts, narrow

- Each code number defines 1 half shell. Per wide base clamping plate 2 reduction half -shells are needed.

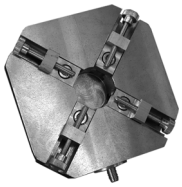
d [mm]	Code	kg
25	**790 109 335**	0.075
32	**790 109 336**	0.070
40	**790 109 337**	0.125
50	**790 109 338**	0.124
56	**790 109 343**	0.114
63	**790 109 339**	0.110
75	**790 109 340**	0.100
90	**790 109 341**	0.100

PF 3 25 117 327

Heater

- Electronic control, variable setting
- With machine mounting
- Control light for mains voltage and heating intervals
- PTFE- coating

d-d [mm]	Performance	Code	kg
25 - 110	230 V/800 W	**790 109 314**	2.600
25 - 110	115 V/800 W	**790 109 323**	2.600



PF 3 25 117 327

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d-d [mm]	Code	kg
25 - 110	**790 109 316**	1.300

Base clamping plate, right narrow

- 110 mm for fitting/pipe joints
- For mounting the narrow reduction clamping inserts
- Freely adjustable (max. 15°)

	d [mm]	Code	kg	
PF 3 25 117 327	110	**790 109 310**	1.000	

Replacement blades

- Sharpened on both sides (1 set = 2 pieces)

	description	Code	kg	
PF 3 25 117 318	short	**790 118 043**	0.045	

Weld 160 Butt fusion machine

PF 3 10 584 100

For fusion jointing of PP and PE pipes and fittings, size range d 40 - 160mm

- Economical, lightweight plastic fusion machine for mobile use. Suitable for plumbing installations, roof drainage systems and drainage pipes.
- **Basic machine** for butt fusion from d 40 up to d 160 mm, max. d 160, PN 4. Sliding carriages, pressure device 600 N scale. Support for heating element.
- **Planer** compact unit with reversible blades.
- **Heating element** thermostatic controlled, PTFE coated, electric cable with plug. Can also be used as a manual tool.
- **Steel frame** used for operation and transportation protection.
- **Reduction clamping inserts** d 40 - 140 mm
- **V-shaped pipe support** d 40 - 140 mm
- **Base clamping plates** right and left, d 160 mm

d-d [mm]	Performance	Code	kg	
40 - 160	230 V/800 W	**790 301 020**	50.000	
40 - 160	115 V/800 W	**790 301 021**	50.000	

1 Set planer blades

- (1 set = 2 blades)

Code	kg	
790 113 056	0.080	

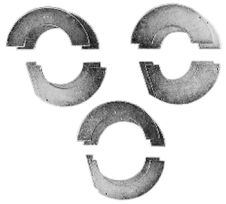
Weld 250 Butt fusion machine

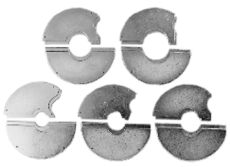
PF 3 10 584 200

For fusion jointing of PP and PE pipes and fittings, size range d 90 - 250 mm

- Economical, lightweight plastic fusion machine for mobile use. Suitable for plumbing installations, roof drainage systems and drainage pipes.
- **Basic machine** for butt fusion from d 90 up to d 250 mm, max. d 250, PN 4. Sliding carriages, pressure device 1000 N scale. Support for heating element.
- **Planer** compact unit with reversible blades.
- **Steel frame** used for operation and transportation protection.
- **Heating element** thermostatic controlled, PTFE coated, electric cable with plug. Can also be used as a manual tool.
- **Complete** with reduction clamping inserts d 90 - 225 mm
- Pipe support inserts d 90 - 225 mm included

d-d [mm]	Performance	Code	kg
90 - 250	230 V/1500 W	**790 311 020**	90.000
90 - 250	115 V/1500 W	**790 311 021**	73.000



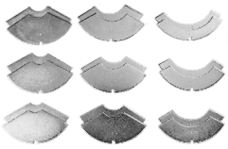


PF 3 10 586 500

Reduction clamping inserts

- 1 Code Nr. includes 4 half-shells

d [mm]	Code	kg
90	**790 311 050**	3.000
110	**790 311 051**	2.750
125	**790 311 052**	2.350
140	**790 311 053**	2.200
160	**790 311 054**	2.100
180	**790 311 055**	1.800
200	**790 311 056**	1.500
225	**790 311 057**	1.000



PF 3 10 586 500

Inserts for pipe support

- 1 Code Nr. Includes 2 supports

d [mm]	Code	kg
90	**790 311 060**	1.400
110	**790 311 061**	1.350
125	**790 311 062**	1.150
140	**790 311 063**	1.100
160	**790 311 064**	1.000
180	**790 311 065**	0.900
200	**790 311 066**	0.750
225	**790 311 067**	0.500

PF 3 10 586 900

1 set planer blades

- (set of 2 blades)

Code	kg
790 115 024	0.060

KS 355

PF 3 25 129 760

Plastic pipe cutter

- The KS 355 is the ideal tool for simple right angle precision cutting of PVC, PE and PP pipes, Size range d 160 to 355 mm with a wall thickness up to 40 mm. Including transport box.
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts neccessary

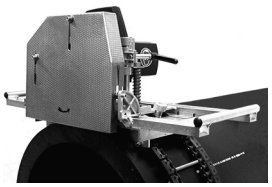
d-d [mm]	Code	kg	
160 - 355	**790 202 001**	15.400	

PF 3 25 119 107

Saw blade Ø 180x30

Code	kg	
790 202 011	0.485	

KS 1600



Plastic pipe cutter

The KS 1600 is prepared to cut plastic-pipes from diameter 355 mm up to 1600 mm with a wall thickness of max. 60 mm, fast, clean and properly right-angled. For each pipe-diameter the appropriate chain length is necessary. The saw is to put on the tensioned chain as per user manual and serves as a guiding device for the saw over a full 360° turn.

The guard plate covers the saw blade also during operation and provides full protection for the user all the time.

The KS 1600 Basis-Kit consists of a hand-circular saw, 230 V / 2200 W with carriage, 2 tension chains for d 560 mm and d 630 mm as well as a chain tensioner. The whole equipment is to be placed easily into the convenient and robust transport box.

The easy handling and the optimal safety factor do make this tool indispensable on each building site.

Scope of delivery:
1 Hand-circular saw, 1 tensioning chain d 560 mm, 1 tensioning chain d 630, 1 chain tensioner, 1 hex-wrench size 5, 1 hex-wrench size 6, 1 operating instruction, transport-box

Technical data:

Dimension range:	355 –1600 mm (By usage of the respective tensioning chain)
Plug:	EU-Plug
Voltage:	230 V AC
Power:	2200 Watt
Frequency:	50-60 Hz
Circular saw blade outer-Ø:	240 mm
RPM:	4100
Sound level:	104 dB (A)
Weight saw:	15, 5 kg
Weight KS 1600 Basic-Kit:	43,5 kg
Dimensions saw (WxHxD):	790 x 330 x 335 mm
Dimensions Transport-Box:	950 x 400 x 395 mm

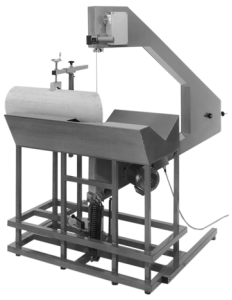
	d-d [mm]	Type	Code	kg	
PF 2 51 305 006	355 - 1600	KS 1600 Basic Kit	**790 109 600**	43.000	

Saw blade

	description	Code	kg	
PF 3 25 119 106	Saw Blade 240X3,0X30, 18 teeth punched	**790 109 618**	0.653	

Saws

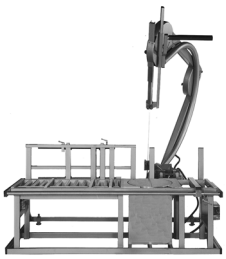
BS 450 Belt saw size range d 90 - 450 mm



- For exact cutting of PE, PP, PVC and PVDF plastic pipes, size range d 90 - 450 mm
- Pipe cutter with sturdy tubular steel stand and integrated V-bed
- Variable clamping system for fastening the pipe in the V-bed
- Angles from 0° to 45° to one side can be freely adjusted
- Easy to disassemble into subcomponents and transport to job sites
- Spring-resilient lowering of saw bow
- Easy saw blade replacement system with centering mechanism
- Application: up to d 160 PN 10, up to d 250 PN 6, up to d 450 PN 3,2

	d-d [mm]	Code	kg	
PF 3 25 129 700	90 - 450	**790 109 045**	160.000	

BS 630 Belt saw



- Angles from 0° to 45° to one side can be freely adjusted
- For exact cutting of PE, PP, PVC and PVDF pipes, size range d 100 - 315 mm and 200 - 630 mm
- Pipe cutter with sturdy tubular steel stand
- Variable clamping system for fastening the pipe in the V-bed
- Spring-resilient lowering of saw bow
- Easy saw blade replacement system with centering mechanism

	d-d [mm]	Code	kg	
PF 3 25 129 700	110 - 630	**790 109 047**	340.000	

BS Wearing Parts

- **Saw belt for**

	Article	Code	kg	
PF 3 25 119 105	BS 450 BS 630	**790 109 046** **790 109 048**	0.400 0.500	

On request!

Code	
on request	

Tools for pipeline construction

Manual pipe peeling and chamfering tools

PF 2 51 305 001

d [mm]	Code	kg
20	**799 300 260**	0.067
25	**799 300 270**	0.081
32	**799 300 280**	0.102
40	**799 300 290**	0.244
50	**799 300 300**	0.294
63	**799 300 310**	0.505
75	**799 300 320**	0.780
90	**799 300 330**	0.987
110	**799 300 340**	1.360

Spare blades for calibration tools
Peeling tool blade

- 3 pieces are required per dimension

PF 2 51 305 999

d [mm]	Code	kg
20	**799 300 266**	0.009
25	**799 300 276**	0.005
32	**799 300 286**	0.010
40	**799 300 296**	0.020
50	**799 300 306**	0.020
63	**799 300 316**	0.024
75	**799 300 326**	0.028
90	**799 300 336**	0.038
110	**799 300 346**	0.046

Spare konus handle for calibration tools

PF 2 51 305 999

d-d [mm]	Article	Code	kg
45 - 50	M6	**799 300 295**	0.025
63 - 110	M8	**799 300 315**	0.050

Chamfering tools

Tool for beveling (15° angle) the outer diameter of the thermoplastic pipes (PVC, ABS, PB, PP, PE). Sliding surface out of industrial felt.

PF 3 10 590 100

d-d [mm]	Code	kg
40 - 200	**790 309 001**	1.600
50 - 315	**790 309 002**	3.170

Miscellaneous accessories org

Timer with 2 stop times

PF 3 25 117 316

Code	kg	
790 114 028	0.100	

KS Tangit Cleaner

PF 2 28 473 002

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.

Code	kg	
799 298 023	0.890	

Product Range

Electrofusion Units

Electrofusion Units

MSA Plus 400
Traceability Electrofusion Unit with USB interfaces

NEW, environmental friendly manufactured electrofusion unit according EU directive 2002/95/EU (RoHS).

Professional electrofusion unit for traceability of piping system components from raw material to completed electrofusion joint (to ISO 12176). The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is equipped with compact flash memory card (exchangeable data carrier), barcode reader pen or optional barcode scanner. The unit is robust, light and easy to use. The menue has up to 27 different languages. Inclusive 1 transport case, 1 USB memory stick, 1 pair of angle adapter clips 4.0 mm, operating instructions, configuration card and Software MSA WIN-WELD.

For printer or PC communication the USB cable (799350619) is required.

Technical Data

Ambient temperature	-10 °C - +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Interfaces	USB (type A) for printer communication and to load software updates USB (type B) for PC communication
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	284 x 440 x 195 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LCD graphic, background light, contrast adjustment
Size display (WxH)	132 x 39 mm
Type size	8 mm
Languages	Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Latvian, Lithuanian, Malaysian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish
Warranty	24 months

Type	Code	LVI	kg	Description
MSA Plus 400	**799 350 580**	**183 36 00**	16.800	barcode reader pen, transport case
MSA Plus 400	**799 350 581**	**183 36 01**	16.800	barcode scanner, transport case
MSA Plus 400	**799 350 585**		16.800	CH power plug with barcode reader pen, transport case

PF 2 51 306 003

MSA Plus 350
Record Electrofusion Unit with USB interfaces

NEW, environmental friendly manufactured electrofusion unit according EU directive 2002/95/EU (RoHS).

Professional electrofusion unit for recording jointing data of electrofusion components as a basis for electronic joint recording. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is equipped with barcode reader pen, optional with barcode scanner. The unit is robust, light and easy to use. The menu has up to 27 different languages. Inclusive transport box, 1 USB memory stick, 1 pair of angle adapter clips 4.0 mm, operating instructions, configuration card and Software MSA WIN-WELD.

To read out the fusion protocols the USB cable (799 350 619) or the USB memory stick (799 350 622) required.

Technical Data

Ambient temperature	-10 °C - +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Interfaces	USB (type A) for printer communication and to load software updates USB (type B) for PC communication
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	284 x 440 x 195 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LCD graphic, background light, contrast adjustment
Size display (WxH)	132 x 39 mm
Type size	8 mm
Languages	Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Latvian, Lithuanian, Malaysian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish
Warranty	24 months

Type	Code	NRF	kg	Description
MSA Plus 350	**799 350 570**	**183 35 98**	16.800	barcode reader pen, transport case
MSA Plus 350	**799 350 571**	**246 28 52**	16.800	barcode scanner, transport case
MSA Plus 350	**799 350 575**		16.800	CH Power plug, with barcode reader, transport case

PF 2 51 306 003

MSA Plus 300
Automatic Electrofusion Unit with USB interfaces

NEW, environmental friendly manufactured electrofusion unit according EU directive 2002/95/EU (RoHS).

Automatic electrofusion unit with barcode reader pen, optional with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. The menu has up to 27 different languages. Inclusive transport box, 1 pair of angle adapter clips 4.0 mm, operating instructions and configuration card.

To load software updates the USB memory stick (799 350 622) is required.

Technical Data

Ambient temperature	-10 °C - +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Interfaces	USB (type A) to load software updates USB (type B) for PC communication
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	284 x 440 x 195 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LCD graphic, background light, contrast adjustment
Size display (WxH)	132 x 39 mm
Type size	8 mm
Languages	Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Latvian, Lithuanian, Malaysian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish
Warranty	24 months

Type	Code	NRF	kg	Description
MSA Plus 300	**799 350 560**	**183 35 96**	16.800	barcode reader pen, transport case
MSA Plus 300	**799 350 561**	**246 28 51**	16.800	barcode scanner, transport case
MSA Plus 300	**799 350 565**		16.800	CH Power plug, with barcode reader pen, transport case

PF 2 51 306 003

MSA Plus 250
Automatic Electrofusion Unit

NEW, environmental friendly manufactured electrofusion unit according EU directive 2002/95/EU (RoHS).

Automatic electrofusion unit with barcode reader pen, optional with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. Single push-button operation, display shows fusion time and energy consumed. Inclusive transport box, 1 pair of angle adapter clips 4.0 mm and operating instructions.

Technical Data

Ambient temperature	-10 °C - +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	284 x 440 x 195 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LED 1 x 4 N, 7 Segments
Size display (WxH)	50 x 18 mm
Type size	14 mm
Warranty	24 months

Type	Code	RSK	kg	Description
MSA Plus 250	**799 350 550**	**183 35 94**	16.800	barcode reader pen, transport case
MSA Plus 250	**799 350 551**	**242 06 23**	16.800	barcode scanner, transport case
MSA Plus 250	**799 350 555**		16.800	CH Power plug, barcode reader pen, transport case

PF 2 51 306 002

MSA Plus 250 EX Multi
Automatic Electrofusion Unit

NEW, environmental friendly manufactured electrofusion unit according EU directive 2002/95/EU (RoHS).

Monovalent automatic electrofusion unit with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. Single push-button operation, display shows fusion time and energy consumed. Inclusive transport box, 1 pair of angle adapter clips 4.0 mm and operating instructions.

For PE ø 20-400, INSTAFLEX PB ø 125, 160, 225, Fuseal Sea Drain ø 1 1/2-12.
Only for GF products like ELGEF Plus.

Technical Data

Ambient temperature	-10 °C - +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	284 x 440 x 195 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LED 1 x 4 N, 7 Segments
Size display (WxH)	50 x 18 mm
Type size	14 mm
Warranty	24 months

	Type	Code	kg	Description	
PF 2 51 306 002	MSA Plus 250 EX Multi	**799 350 520**	16.800	barcode scanner, transport case	

MSA Plus and MSA accessories

Software MSA WIN WELD

General functions:

- Reading and management of fusion data
- Sort- and filter functions
- Issue single records, collected records
- Reading and formatting of memory cards
- Reading and management of traceability data, according ISO 12176-4
- Export functions for conversion to conventional data base files, Excel or Access
- Installed languages: German, English, French, Italian, Dutch, Croatian, Spanish
- Creating individual barcodes
- Individual configuration of fusion devices

- Professional software for analysis and data management of electrofusion data, traceability data and for configuration barcodes (Z functions).
- Compatibility with MSA 350/MSA Pus 350 (fusion data) and MSA 400/MSA Plus 400 (fusion and traceability data).
- The software is suitable for Windows ME/NT4/2000/XP.
- Scope of delivery: CD-ROM, installation guide (manuals and additional information on CD-ROM)

Code	kg	Description	
799 350 365	0.180	Software for MSA 350-400 and MSA Plus 350-400	

PF 2 51 306 001

Software PIPE WIN WELD / SUVI WIN WELD

- Professional software for analysis and documentation of installed piping systems or of a defined part of it: Pipe book. With PIPE WIN WELD it is possible to create a complete electronic documentation of the installed pipes and pipe connection elements. The software works with the data bases of MSA WIN WELD and SUVI WIN WELD. The software makes it possible to work with data from other manufacturers (CSV module for data transfer).
- The software is suitable for Windows ME/NT4/2000/XP.
- Delivery: CD-ROM, USB hardlock (PIPE WIN-WELD, PIPE WIN-WELD CSV), installation guide (manuals and additional information on CD-ROM)

Type	Code	kg	Description	
PIPE CSV	**790 119 301**	0.180	Complete package incl. CSV module for data transfer, USB hardlock	
PIPE	**790 119 302**	0.180	Complete package, USB hardlock	
SUVI	**790 119 303**	0.180	Complete package	

PF 3 25 117 312

PF 2 51 306 001

Barcode Scanner

- Robust, handy barcode scanner with a high reading performance made for the construction site. Quick, safe and professional!
  Compatible with MSA 250-400 and MSA Plus 250-400 electrofusion control units.

Code	kg	Description	
799 350 419	0.350	Barcode scanner with pouch and instructions	

PF 2 51 306 001

Barcode Reader Pen

- Compatible with MSA 250-400 and MSA Plus 250-400 electrofusion control units. (As additional component. A bar code reader pen or scanner is provided with all MSA 250-400 and MSA Plus 250-400 units.

Code	kg	Description	
799 350 335	0.165	Barcode reader pen	
799 350 337	0.046	Pouch for pen suitable for MSA 500/3000	
799 160 411	0.072	Pouch for pen suitable for MSA 250-400 and MSA Plus 250-400	

PF 2 51 306 001

Adapter

- Adapters for electrofusion units with 4 mm connectors.
- Compatible with electrofusion units MSA 210, MSA 250-400 and MSA Plus 250-400.

Type	Code	kg	Description	
4,0 mm	**799 350 340**	0.055	Angle adapter, black	
4,7 mm	**799 350 341**	0.055	Angle adapter, grey	
4,0 mm	**799 350 461**	0.055	Adapter, black	
4,7 mm	**799 350 462**	0.055	Adapter, white	

PF 2 51 306 004

Transport Cases MSA Fusion Units

Note:

- Large Transport Case for MSA 250-400, MSA Plus 250-400 Units and accessories (barcode scanner, manuals)

Dimension	Code	kg	Description	
300x330x200 mm	**799 350 401**	5.540	Transport Case MSA	
325x470x215 mm	**799 350 472**	5.540	Transport Case large MSA Plus	

MSA Plus accessories

USB memory stick

New

- Memory stick to update MSA Plus 300-400 fusion units with new software and languages
- Compatibility with MSA Plus 300-400

Type	Code	kg	Description	
MSA Plus 300-400	**799 350 622**	0.300	Memory stick (for software or languages updates)	

PF 2 51 306 005

Compact flash card

New

- Memory card type I to record fusion and traceability data
- Reliable and resistant data carrier for industrial use
- Compatibility with MSA Plus 400
- In connection with the PCMCIA-CF Adapter (799 350 623) this compact flash card is **unsuitable for MSA 400 units**!

Type	Code	kg	Description	
MSA Plus 400	**799 350 621**	0.050	Memory card (32 MB capacity for 1700 fusion protocols)	

PF 2 51 306 005

Card reader

New

- To read in fusion and traceability data from the compact flash card (799 350 621) in the PC via USB (type A) interface
- Flexible card reader with slots for different cards

Type	Code	kg	Description	
MSA Plus 400	**799 350 620**	0.200	multiple card reader	

PF 2 51 306 005

Adapter Card PCMCIA-CF

New

- To read in fusion and traceability data from the compact flash card (799 350 621) in the PC via PCMCIA slot
- Can only be used for compact flash cards type I

Type	Code	kg	Description	
MSA Plus 400	**799 350 623**	0.100	Adapter Card PCMCIA-CF	

PF 2 51 306 005

USB cable

New

- PC and printer transmission cable to transfer fusion data directly to PC or to printer
- Compatibility with MSA Plus 350-400

Type	Code	kg	Description	
MSA Plus 350-400	**799 350 619**	0.300	USB cable (type A/B) for printer and PC connection	

PF 2 51 306 005

General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

1 General

1.1 These General Conditions shall apply to all Products supplied by Georg Fischer to the Purchaser They shall also apply to all future business even when no express reference is made to them

1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.

1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

3.1 Georg Fischer's product range is subject to change.

3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.

4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.

5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

6 Local Laws and Regulations, Export Controls

6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.

6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms of the ICC, latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and importlicences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.

7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.

8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser.
In particular, payment shall still be made when unessential items are still out-standing provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.

9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.

9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.

10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:

a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.

b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially unpractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.
Should the effect of force majeure exceed a period of six months, either party may cancel the contract forthwith.
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting therefrom, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.

c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.

10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one month which equally is not met.
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.

10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.

10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.

10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to liquidated damages in the amount of 10% of the contract price, Georg Fischer›s right to prove and claim higher damages remaining reserved. Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage.

11 Packing

If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms ICC, latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.

12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.

13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.

13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.

13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.

14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within 7 working days after discovery, in any event within the agreed warranty period.

14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.

14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

15.1 At the written request of the Purchaser, Georg Fischer undertake to repair or replace at their discretion, as quickly as possible and free of charge all Products supplied which demonstrably suffer from faulty design, materials or workman-ship or from faulty operating or installation instructions.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer.

15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.

15.3 The Purchaser shall be entitled to cancel the contract or to demand a reduction in the contract price if also a second attempt to repair or replace the Products has failed.

15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.

15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.

15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.

15.7 In case of Products for use in domestic installations or in utilities
- Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object as well as, in case of negligence, all other direct damages caused by the defective Product (damage to property and injury to or death of persons) up to CHF 1 000 000 per occurrence.
- the statute of limitations for warranty or damage claims – contrary to Section 15.6 – will be 5 years from the date of installation.

16 Limitation of Liability

All cases of breach of contract and the relevant consequences as well as all rights and claims on the part of the customer, irrespective on what ground they are based, are exhaustively covered by these general conditions of supply. In particular, any claims not expressly mentioned for damages, reduction of price, termination of or withdrawal from the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit and other direct or indirect or consequential damage. This exclusion of liability, however, does not apply to unlawful intent or gross negligence on the part of Georg Fischer and in case of strict liability under applicable product liability statutes, but does apply to unlawful intent or gross negligence of persons employed or appointed by Georg Fischer to perform any of its obligations.

17 Severability

Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.

18.2 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

18.3 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

7/2005

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ensure local customer support in over 100 countries.

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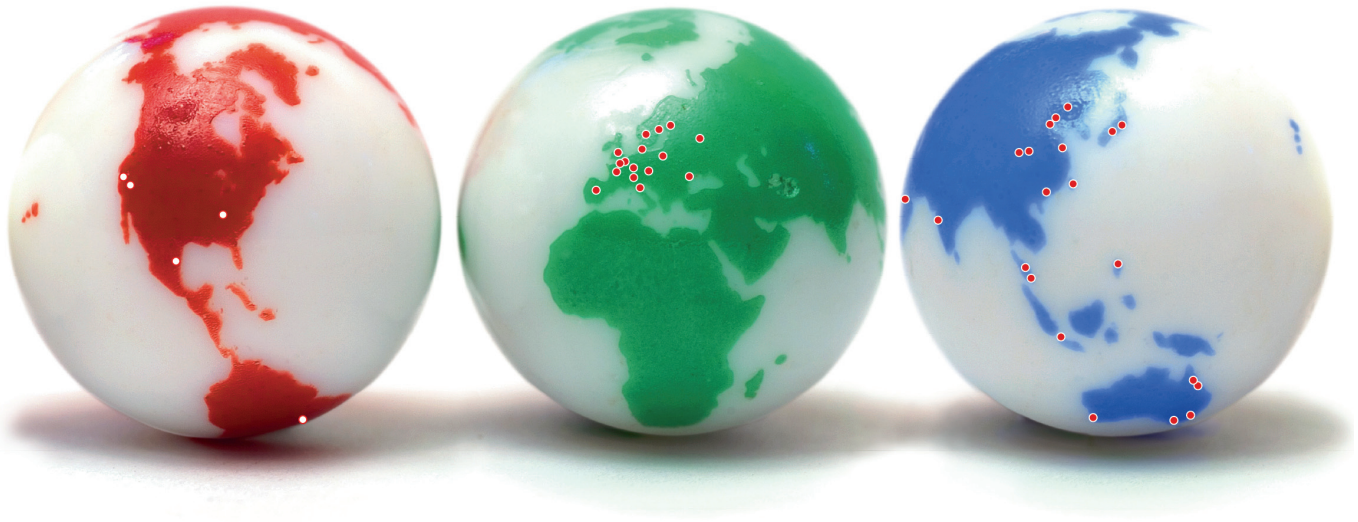

The technical data is not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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